Express Mail #EI568915460US



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent application

Attorney Docket No. LIT-PI-420

of Kevin L. Gering

for PHOTOREACTOR WITH SELF-CONTAINED PHOTOCATALYST RECAPTURE

the specification of which is being transmitted herewith

Assistant Commissioner for Patents Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

References -- See attached form PTO-1449.

The attached form PTO-1449 is submitted in compliance with 37 CFR 1.56.

No admission is made as respects the attached documents or their contents.

RESPECTFULLY SUBMITTED,

W. Gary Goodson Reg. No. 22,387

P. O. Box 1625 Idaho Falls, ID 83415-3899 (208) 526-9469

				DEPARTMENT OF COMMERCE NT AND TRADEMARK OFFICE	ATTY. DOCKET NO. LIT-PI-420			SERIAL NO. Filed Herewith	63 PT		
	3	LIST OF ART CITED	BY APPI		APPLICANT Gering				0.8 0.8		
		(Use several sneets	ir necessary)		FILING DATE Filed Herewith			GROUP Unknown	914		
				U.S. PATENT DOCUMENTS	3	1. 1. T			Ĵ		
*Examiner Initial		Document Number	Date	Name		Class	Subc	lass Filing			
<u> </u>	AA	3906927	09/23/75	Caplan		126	270				
	AB	4883340	11/28/89	Dominguez		350	260				
	AC	5650051	07/22/97	Wada et al		204	157.5	52			
	AD	5999323	12/07/99	Wood		359	591				
	AE	6037535	03/14/00	Yoshino		136	246				
	AF										
	AG										
	АН										
 	Al								}		
	LΑ								·}		
	AK		<u> </u>				<u> </u>	_			
				FOREIGN PATENT DOCUMEN	ITS		,				
		Document Number	Date	Country		Class	Subcl				
	AL		<u> </u>					Yes	No		
	AM										
	AN				· · · · · · · · · · · · · · · · · · ·		<u> </u>				
	AP					<u> </u>					
		ОТН	IER REFEREN	CES (including Author, Title, Date	e, Pertinent Pages, Etc	.)					
	AR Jackson, N.B., et al., "Attachment of TiO, Powders to Hollow Gas Microbeads: Activity of the TiO, -Coated Beads in the Photoassisted Oxidation of Ethanol to Acetaldehyde," Journal of the Electrochemical Society, Vol.138, No.12, 12/91, pp. 3660-3664.								passisted		
			Tseng, J., et al., "Photocatalytic Oxidation Process for the Treatment of Organic Wastes," Chemical Oxidation, Proceedings of the First International Symposium Chemical Oxidation: Technology for the Nineties, February 20-22, 1991, pp. 262-277.								
 	AS		Rosenberg, I., et al., "Collection Optics of TiO, Photocatalyst on Hollow Glass Microbeads Floatin on Oil Slicks," <u>Journal of Physical Chemistry</u> , Vol.96, No.8, 1992, pp. 3423-3428.								
		Matthews, R. W., 653-660, 1990.	Matthews, R. W., "Purification of Water with Near-U.V. Illuminated Suspensions of Titanium Dioxide," Wat. Res., Vol.24, No.5, pp. 653-660, 1990.								
	AT			l Oxidation Technologies: Ultraviol ud Waste & Hazardous Materials,				gent, and Titanium D	oioxide-		
	-		Hsiao, C.Y., et al., "Heterogeneous Photocatalysis: Degradation of Dilute Solutions of Dichloromethane (CH,Cl,), Chloroform (CHCl, Carbon Tetrachloride (CCl,) with Illuniated TiO, Photocatalyst," Journal of Catalysis, 82, pp.418-423, 1983.								
			(armir or Calarysis, Ca,	• •					

Form PTO-14	49		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET I LIT-PI-420		SERIAL NO. Filed Herewith			
	1	LIST OF ART CITED		LICANT	APPLICANT Gering					
(on orient stooms it toomsday)					FILING DATE Filed Herewith			GROUP Unknown		
				U.S. PATENT DOCUMENTS	11100 110101111					
*Examiner Initial		Document Number	Date	Name		Class	Subclass	Filing If Appr		
	АА									
	AB							1-11		
	AC									
	AD									
	AE									
	AF									
	AG				 					
	АН									
	Al									
	AJ									
	AK									
				FOREIGN PATENT DOCUMENT	rs					
		,								
		Document Number	Date	Country		Class	Subclass		slation	
	AL		Date			Class	Subclass	Trans Yes	slation No	
	AL AM		Date			Class	Subclass			
			Date			Class	Subclass			
	AM		Date			Class	Subclass			
	AM AN		Date			Class	Subclass			
	AM AN AO	Number					Subclass			
	AM AN AO	OTH	ER REFEREN	Country	, Pertinent Pages, Etc	.)		Yes	No	
	AM AN AO AP	OTH Prairie, M. R., et	ER REFEREN	CES (including Author, Title, Date, on of the Treatment of Metal-Edua	, Pertinent Pages, Etc	.)		Yes	No	
	AM AN AO AP	OTH Prairie, M. R., et 1996 Koval, C., et al,	ER REFEREN al., "Evaluation "Solar Hydroge	CES (including Author, Title, Date, on of the Treatment of Metal-Edua	, Pertinent Pages, Etc Complexes using TiO	.) Photocataly	sis,* <u>Solar Er</u>	Yes	No . 71-78,	
	AM AN AO AP	OTH Prairie, M. R., et 1996 Koval, C., et al, "Titanium dioxide Serpone, N., et al	ER REFEREN al., "Evaluation "Solar Hydrogo photocatalysis: ., "AMI Simu	CES (including Author, Title, Date, on of the Treatment of Metal-Edta	, Pertinent Pages, Etc Complexes using TiO	.) Photocataly: hnology/New	sis,* <u>Solar Er</u>	Yes Period of the Period of th	No No 1996	
	AM AN AO AP	OTH Prairie, M. R., et 1996 Koval, C., et al, "Titanium dioxide Serpone, N., et al Suspensions of Tit Prairie, M. R., et	ER REFEREN al., "Evaluation "Solar Hydroge photocatalysis: ., "AMI Simu anium Dioxide, al., "An Inve	CES (including Author, Title, Date, on of the Treatment of Metal-Edua en Production* Treatment hype or hope?* Environ	mental Science & Tec	hnology/New	sis,* <u>Solar Er</u> s, Vol.30., N	Yes Digineering, pp. 10.7, p.284A, Ults from Aqui	No N	
	AM AN AO AP AR AS	Prairie, M. R., et 1996 Koval, C., et al, "Titanium dioxide Serpone, N., et al Suspensions of Tit Prairie, M. R., et Chemicals," Enviro	ER REFEREN al., "Evaluation "Solar Hydroge photocatalysis:, "AMI Simu anium Dioxide, al., "An Inve- numental Science	CES (including Author, Title, Date, on of the Treatment of Metal-Edta en Production* Treatment hype or hope?* Environ* lated Sunlight Photoreduction and E* Solar Energy, Vol. 39, No.6, pp. stigation of TiO, Photocatalysis for	mental Science & Tec Climination of Hg(II) : 5. 491-498, 1987 the Treatment of Wa	hnology/New and CH ₃ Hg(ii	sis,* Solar Er s. Vol.30., N	Yes O.7, p.284A, Uts from Aquitals and Organia	No N	
EXAMINER	AM AN AO AP AR AS	Prairie, M. R., et 1996 Koval, C., et al, "Titanium dioxide Serpone, N., et al Suspensions of Tit Prairie, M. R., et Chemicals," Enviro	ER REFEREN al., "Evaluation "Solar Hydroge photocatalysis:, "AMI Simu anium Dioxide, al., "An Inve- numental Science	CES (including Author, Title, Date, on of the Treatment of Metal-Edta en Production* Treatment hype or hope?* Environ* lated Sunlight Photoreduction and E * Solar Energy, Vol. 39, No.6, pp. stigation of TiO, Photocatalysis for the Technology, Vol.27, No.9, pp. 1	mental Science & Tec Climination of Hg(II): 0. 491-498, 1987 the Treatment of Wa 1776-1782, 1993	hnology/New and CH ₃ Hg(ii	sis,* Solar Er s. Vol.30., N	Yes O.7, p.284A, Uts from Aquitals and Organia	No N	

1

F